

FORM PTO-1449 (modified)  
 To: U.S. Department of Commerce  
 (PW FORM PAT-1449)  
 Patent and Trademark Office



Atty. Dkt. No.	M#	Client Ref.
	0284781	081289

Applicant: Timothy A. Hovanec

Appln. No.: 10/659,980

Filing Date: September 10, 2003

Examiner: SALMON Group Art Unit: 1652-1634

Date: June 4, 2004

Page 1 of 1

### U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR						
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DR						
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HR						
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LR						
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### FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
	OR								
	PR								
	QR								
	RR								
	SR								

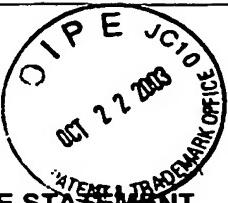
### OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

KS	TR	Aakra, Agot et al., "RFLP of rRNA genes and sequencing of the 16S-23S rDNA intergenic spacer region of ammonia-oxidizing bacteria: a phylogenetic approach," Intl. Journal of Systematic Bacteriology, 1999, pp. 123-130			
	UR	Hovanec, Timothy et al., "Comparative Analysis of Nitrifying Bacteria Associate with Freshwater and Marine Aquaria," Applied and Environmental Microbiology, Aug. 1996, pp. 2888-2896			
↓	VR	Burrell, Paul C. et al., "Aquatic Nitrate Oxidising Microorganisms," Canadian Intellectual Property Office, Nov. 20, 1998, pp. 1-76			
	WR				
	XR				
	YR				

Examiner /Katherine Salmon/ Date Considered: 05/10/2006

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	0284781	081289

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Examiner: SALMON Group Art Unit: 1634

Date: October 14, 2003

Page 1 of 1

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	TR									
	UR									
	VR									

#### OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

KS	WR	Tal, Yossi et al.; "Characterization of the Microbial Community and Nitrogen Transformation Processes Associated with Moving Bed Bioreactors in a Closed Recirculated Mariculture System; Elsevier Science B.V., Aquaculture, 2003, pp 187-202		
	XR			
	YR			
	ZR			
	AAR			
	BBR			

Examiner /Katherine Salmon/ Date Considered: 05/10/2006

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<b>FORM PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 81289-284781		Application No. <i>Unassigned</i> <b>101659980</b>
				Applicant <b>HOVANEC</b>		
				Filing Date September 10, 2003		Group Art Unit <i>Unassigned</i> <b>1634</b>
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes      No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
KS	TESKE et al.: "Evolutionary relationships among ammonia- and nitrite-oxidizing bacteria" DATABASE: EBI ACCESSION NO.: L35505 DATE OF AVAILABILITY: November 29, 1994					
	VAN DER MEER et al: "Characterization of the bacterial composition of a nitrogen-removing biofilm from a trickling filter at Kollikon, Switzerland" DATABASE: EBI ACCESSION NO.: AJ224941 DATE OF AVAILABILITY: March 13, 1998					
	PURKHOLD et al.: "Comparative 16S rRNA and amoA sequence analysis: Implications for molecular diversity surveys" DATABASE: EBI ACCESSION NO.: AF272420 DATE OF AVAILABILITY: December 6, 2000					
	SUWA et al.: "Phylogenetic relationships of activated sludge isolates of ammonia oxidizers with different sensitivities to ammonium sulfate," J. GEN. APPL. MICROBIOL., vol. 43, pages 373-379 (1997)					
	SUWA: "Nitrosomonas sp. JL21 gene for 16S rRNA, partial sequence" DATABASE: EBI ACCESSION NO.: AB000700 DATE OF AVAILABILITY: May 5, 1998					
	HEAD et al.: "The phylogeny of autotrophic ammonia-oxidizing bacteria as determined by analysis of 16S ribosomal RNA gene sequences," JOURNAL OF GENERAL MICROBIOLOGY, vol. 139, pages 1147-1153 (1993)					
	STACKEBRANDT et al. (2001) Encyclopedia of Life Sciences, pages 1-7, Nature Publishing Group, New York, NY					
EXAMINER	DATE CONSIDERED <i>/Katherine Salmon/      05/10/2006</i>					
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